

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
21 July 2005 (21.07.2005)

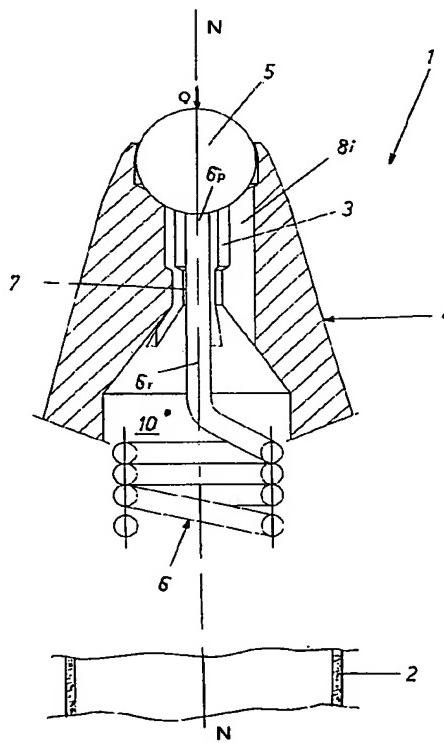
PCT

(10) International Publication Number
WO 2005/065967 A1

- (51) International Patent Classification⁷: **B43K 7/10, 7/00, 1/08**
- (21) International Application Number: **PCT/IB2004/004200**
- (22) International Filing Date: **16 December 2004 (16.12.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data: **02220/03 29 December 2003 (29.12.2003) CH**
- (71) Applicant (*for all designated States except US*): PRE-MEC S.A. [CH/CH]; Via Industria, CH-6814 Cadempino (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **MAROTTA,**
- (74) Agent: **FIAMMENGI-DOMENIGHETTI, Delfina; c/o Fiammenghi-Fiammenghi, Via San Gottardo, 15, CH-6900 Lugano (CH).**
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH,

[Continued on next page]

(54) Title: BALL-POINT PEN WITH MEANS OF PREVENTING INCLINATION OF THE STRAIGHT PORTION OF THE BALL-PRESSING SPRING



(57) Abstract: A ball-point pen (1) is described, said pen comprising a reservoir (2) communicating with a hole (10) connected to a capillary channel (3) of a tip (4) which is provided with a cavity (9) which seats the ball (5) for writing, this ball (5) being kept pressed against a retaining edge (9t) of the abovementioned cavity (9) as a result of the thrust of a compression resilient spring (6) terminating in a straight portion (6r) which is aligned with the longitudinal axis (N-N) of the ball-point pen (1) and the free end (6p) of which is in contact with the said ball (5). In the ball-point pen (1) according to the invention, the said capillary channel (3) has, inside it, means (7) which, coming into contact with the said straight portion (6r) of the spring (6), prevent it from becoming inclined with respect to the said longitudinal axis (N-N) of the ball-point pen (1).

WO 2005/065967 A1



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.